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Alkaline manganese cell - includes anode of manganese di:oxide, a caustic alkali electrolyte and cathode contg. zinc powder

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PATENT ASSIGNEE

(RAYN) RAY-O-VAC

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ABSTRACT

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An alkaline Mn cell includes an anode of MnO₂, a cathode, and an electrolyte of caustic alkali. The cathode consists of amalgamated Zn powder, electrolyte and gelling agent at a ratio of (100 g):(35-65 ml):(0.1-0.8 g). Above 50 wt. % amalgamated Zn powder is >80 mesh. A dis agent may be employed.

Since fine particulate and amalgamated Zn is used as the negative active material, large surface area is obtd. by employing a small amt. of the gelling agent, and the cell is prevented from destruction due to the generation of gases or liq. leakage.